



SFW 1711

PATENT APPLICATION  
PO-6657  
LeA 34,814

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICATION OF	)	GROUP NO.:	1711
KARL-HEINZ DÖRNER ET AL	)		
SERIAL NUMBER: 10/047,365	)	EXAMINER:	T.T. TRAN
FILED: JANUARY 14, 2002	)		
TITLE: SOLAR MODULES WITH A TRANSPARENT POLYURETHANE FRONT SIDE AND A PROCESS FOR PRODUCING SAME	)		
U.S. PATENT NUMBER: 7,049,803 B2	)		
DATE ISSUED: MAY 23, 2006	)		

**LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Patentees wish to place the enclosed document with the prosecution history of the subject patent. Accordingly, enclosed is a copy of the following document

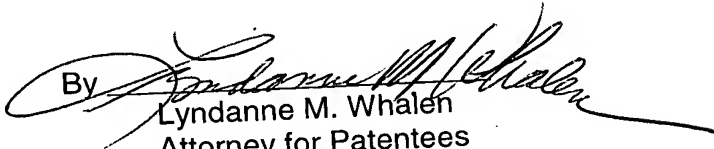
DE 100 48 034 A1 Zenit Energietechnik GMBH 05/08/02  
(Abstract attached)

It is believed that this document may be of interest to any member of the general public examining the subject file.

Respectfully submitted,

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POWERED BY **Dialog**

**Glass-less flexible solar laminate used on roofs and facades has a permanently elastic self adhesive layer on its rear side in which flat electrical lines for connecting to a roof or facade and additional lines for wiring are embedded**

**Patent Assignee:** ZENIT ENERGIETECHNIK GMBH; CIS SOLAR PROD GMBH & CO KG

**Inventors:** KALBERLAH K

### Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
EP 1191605	A2	20020327	EP 2001250338	A	20010926	200244	B
DE 10048034	A1	20020508	DE 10048034	A	20000926	200244	

**Priority Applications (Number Kind Date):** DE 10048034 A ( 20000926)

### Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
EP 1191605	A2	G	6	H01L-031/048	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
DE 10048034	A1			H01L-031/048	

### Abstract:

EP 1191605 A2

NOVELTY Glass-less flexible solar laminate has a permanently elastic self adhesive layer on its rear side in which flat electrical lines (5) for connecting to a roof or facade and additional lines (6) for wiring are embedded.

USE Used on roofs and facades for converting daylight into electrical energy.

ADVANTAGE The laminate can be easily installed.

DESCRIPTION OF DRAWING(S) The drawing shows a cross-section through the solar laminate.

Rubber adhesive (2)

Foam (4)

Flat electrical lines (5)

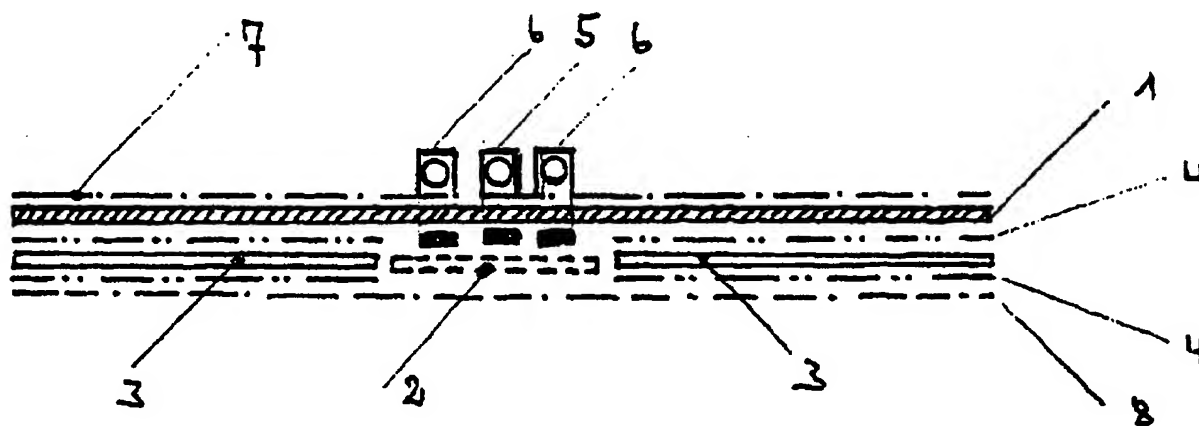
Additional lines (6)

pp; 6 DwgNo 1/2

**Technology Focus:**

TECHNOLOGY FOCUS - POLYMERS - Preferred Features: The self adhesive layer consists of two adhesive systems. A third adhesive system is also present as an acrylic-foam adhesive strip.

Preferred Materials: The adhesive systems are made of butyl rubber adhesive (2) and a foam (4) coated on both sides with acrylate adhesive.



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